

PTC Industries Receives Design and Development Order from ARDE, DRDO for Titanium Cradle for Indian Light Weight Tank

Marks PTC's Entry into Fit-for-Purpose Design of Mission-Critical Defence Components

Key Highlights

- **Design and development order from ARDE, DRDO.** PTC Industries Limited has received a design and development order from the Armament Research & Development Establishment (ARDE), a laboratory of the Defence Research and Development Organisation (DRDO), for a **Titanium Cradle for the 105mm Indian Light Weight Tank**.
- **First order of its kind for PTC.** This is an important milestone as it marks PTC's first order where the Company will be responsible not only for manufacturing, but also for **designing and developing the component to be fit for purpose**, moving beyond conventional build-to-print manufacturing.
- **Mission-critical lightweight defence component.** The Titanium Cradle supports the main gun barrel and breech, provides attachment points for the recoil mechanism and recuperator, and transfers firing and recoil forces safely to the turret structure.
- **Strengthening PTC ONE™.** The order adds an important new capability layer to **PTC ONE™ — From Melt to Mission™**, extending the Group's integrated manufacturing system from materials, precision components and systems integration into design-led development of mission-critical defence components.
- **Long-term light-weighting opportunity.** The development has potential relevance beyond one component, as the light-weighting of tanks, artillery systems and other land defence platforms is expected to become increasingly important for mobility, deployability and performance in demanding terrains.

Why This Matters

- **This is not a routine development or manufacturing order.** It is a design-and-develop order, requiring PTC to take responsibility for creating a component that meets functional, structural and mission requirements.
- **It moves PTC up the value chain** from build-to-print execution towards design-led manufacturing, where engineering judgement, material knowledge, structural performance and manufacturing capability come together.
- **Titanium is strategically important for defence light-weighting**, offering a high strength-to-weight ratio, fatigue resistance and corrosion resistance for mission-critical applications where weight reduction directly impacts platform performance.



- **The order opens a new area of opportunity** for PTC in the design and manufacture of lightweight Titanium components for Indian tanks, artillery systems and other mobility-driven defence platforms.
- **It strengthens India's indigenous defence capability** by creating domestic competence in advanced Titanium components designed for high-performance land systems.

Lucknow, India — 23 July 2026

PTC Industries Limited, an advanced manufacturing company serving critical and super-critical aerospace, defence and strategic applications, today announced that it has received a **design and development order** from the **Armament Research & Development Establishment (ARDE), DRDO**, for a **Titanium Cradle for the 105mm Indian Light Weight Tank**.

ARDE is engaged in the development of advanced armament systems for Indian defence applications. The present order relates to the design and development of a critical Titanium component for a lightweight armament system being developed for the Indian Light Weight Tank programme.

This order represents a significant milestone in PTC's evolution. Unlike traditional build-to-print assignments, where the customer provides a defined design and the manufacturer is responsible for execution, this order requires PTC to participate in the **design and development of the component for its intended functional performance**.

With this order, PTC begins to add design-led development capability to its existing strengths in Titanium materials, precision manufacturing and mission-critical component execution.

A Mission-Critical Titanium Defence Component

The Titanium Cradle is a critical structural component in the armament system. It supports the main gun barrel and breech, provides attachment points for the recoil mechanism and recuperator, and transfers firing and recoil forces safely to the turret structure.

For light tank applications, weight reduction is a critical design requirement. Lighter systems improve mobility, deployability and performance, particularly in high-altitude and mountain warfare conditions where agility, transportability and rapid deployment are essential.

Titanium alloys are well suited for such applications because they combine high strength, low weight, fatigue resistance and corrosion resistance. However, translating these material advantages into a fit-for-purpose defence component requires more than manufacturing capability. It requires design understanding, material behaviour knowledge, structural performance evaluation, precision manufacturing and rigorous validation.

The development of the Titanium Cradle will therefore require PTC to bring together its Titanium expertise, advanced manufacturing capability and engineering development discipline.



PTC ONE™ — From Melt to Mission™

This order strengthens **PTC ONE™ — From Melt to Mission™**, the Group's integrated manufacturing doctrine for transforming advanced materials into mission-critical components, assemblies and systems.

Until now, PTC ONE™ has been expressed through the Group's growing capabilities in critical materials, Titanium and Superalloy manufacturing, precision investment castings, special processes, machining and systems-level integration. This ARDE order adds another important dimension: **design-led development for fit-for-purpose defence applications.**

The order demonstrates that PTC's role is expanding beyond material and component manufacture. It now begins to include the ability to support design, development and optimisation of mission-critical components where material selection, weight reduction, structural integrity and manufacturing feasibility must be considered together.

This is a natural extension of PTC ONE™. From Melt to Mission™ does not only mean manufacturing a part. It means understanding how materials, design, manufacturing, quality and final mission performance connect within one integrated system.

Commercial Validation of a Long-Term Strategy

Over the past several years, PTC has been investing in advanced Titanium and Superalloy capabilities, precision manufacturing infrastructure and integrated manufacturing systems designed to serve increasingly complex aerospace and defence requirements.

The present order validates this long-term strategy by demonstrating that PTC's Titanium capability is relevant not only for manufacturing components, but also for supporting design-led development of lightweight, mission-critical defence hardware.

For shareholders, this represents an important expansion of PTC's addressable opportunity. The Company's role is moving from manufacturing defined components towards participating in higher-value engineering and development work for strategic platforms.

The future opportunity is significant. As India develops and upgrades tanks, artillery systems and other land defence platforms, light-weighting is expected to become an important theme. Titanium components can play a meaningful role in reducing weight while maintaining structural performance. If successfully developed and validated, such capabilities could open further opportunities for PTC across multiple Indian defence platforms requiring lightweight, high-strength, mission-critical components.

Chairman's Statement

Mr. Sachin Agarwal, Chairman & Managing Director, PTC Industries Limited, said:

"This design and development order from ARDE, DRDO is an important milestone for PTC Industries. It is not merely a manufacturing order. It is one of the first opportunities where PTC will be responsible for designing and developing a mission-critical Titanium component to meet its intended functional requirements."



The Titanium Cradle for the Indian Light Weight Tank is a demanding defence component where material selection, structural performance, weight reduction and manufacturing precision must come together. This requires a different level of engineering involvement compared to conventional build-to-print manufacturing.

*Over the past several years, we have been building **PTC ONE™** — our **From Melt to Mission™ manufacturing system** — with the objective of creating deeper capability in critical materials, components and systems. This order adds design-led development capability to that journey and strengthens our ability to serve more complex defence requirements.*

We believe light-weighting will become increasingly important across tanks, artillery systems and other land defence platforms, and Titanium alloys can play a major role in enabling this transition. We are proud to support ARDE and DRDO in advancing indigenous defence capability and remain committed to achieving global parity in critical materials and components from India.”

Strategic Significance

This order represents another important step in PTC’s evolution from a precision component manufacturer into an integrated advanced manufacturing company serving aerospace, defence, space and strategic sectors.

As defence platforms evolve, the demand for lightweight, high-strength, high-reliability materials and components is expected to increase. Mobility, rapid deployment, survivability and performance will require greater use of advanced materials such as Titanium alloys in selected structural and load-bearing applications.

The Titanium Cradle order positions PTC at the intersection of advanced materials, design-led development and mission-critical manufacturing. It strengthens the Company’s relevance to India’s indigenous defence programmes and adds a new dimension to the PTC ONE™ system.

This development also supports India’s broader objective of building domestic capability in critical materials, components and systems, reducing dependence on imports and enabling Indian industry to contribute more deeply to next-generation defence platforms.

About PTC Industries Limited

PTC Industries Limited is an advanced manufacturing company with over six decades of experience in critical and super-critical engineering applications. The Company manufactures high-performance materials, precision-engineered components, critical assemblies and advanced products for aerospace, defence, space, energy and other demanding sectors.

Through its wholly owned subsidiary Aerolloy Technologies Limited and its global manufacturing operations, the Group is building one of the world’s most integrated capabilities for Titanium and Superalloy materials, precision castings and machined components serving aerospace, defence, space and energy markets.



PTC is also substantially expanding its advanced manufacturing capabilities at the Lucknow node of the Uttar Pradesh Defence Industrial Corridor, including integrated Titanium and Superalloy mill capabilities for aerospace-grade ingots, billets, bars, rods, plates and sheets.

PTC ONE™ — From Melt to Mission™
Compounding Capability. Creating Value.

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